

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400141402

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TEST REPORT

Application No.: SZCR2404001414AT

Applicant: Harman International Industries, Inc.

Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Manufacturer: Harman International Industries, Inc.

Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Factory: Duntuo Electronics (Yicheng) Co., Ltd

Address of Factory: Bldg 10, Nongxin Tech Industrial Park, Economic Development Zone,

Yancheng Sub-district, Yicheng City, Hubei Province, China 441400

Equipment Under Test (EUT):

EUT Name: BLUETOOTH HEADSET

Model No.: VIBE BUDS 2, WAVE BUDS 2 ...

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: JBL

FCC ID: APIJBLVBUDS2

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2024-04-18

Date of Test: 2024-04-29 to 2024-05-06

Date of Issue: 2024-05-24

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2024-05-24		Original				

Authorized for issue by:		
	Benson Wong	
	Benson Wang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
Antenna Requirement		N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass			
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass			

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Conducted Peak Output Power		ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass		
Carrier Frequencies Separation		ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass		
Hopping Channel Number		ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Dwell Time		ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass		
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass		

Declaration of EUT Family Grouping:

Model No.: VIBE BUDS 2, WAVE BUDS 2

Only the model WAVE BUDS 2 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on pairing name, packaging information, charging box bottom certification information.



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General Information

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery DC3.85V 49mAh			
	(Charged by Charging case)			
	Right earbuds: Li-Ion Polymer Battery DC3.85V 49mAh			
	(Charged by Charging case)			
	Charging case with backup battery: Li-Ion Polymer Battery DC3.8V 550mAh (Charged by USB port)			
Cable(s):	Type-C cable: 26.5cm unshielded			
Bluetooth Version:	V5.3 Dual mode			
Operation Frequency:	2402MHz to 2480MHz			
Modulation Type:	GFSK, Pi/4DQPSK, 8DPSK			
Channel Spacing:	1MHz			
Number of Channels:	79			
Antenna Type:	FPC			
Antenna Gain:	Left earbuds: 1.18dBi; Right earbuds: 1.52dBi			
Cable loss of RF cable:	0.5dB			

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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4.2 Description of Support Units

Description	Manufacturer Model No. Serial		Serial No.		
			•		
The EUT has been tested as an independent unit.					

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.25 x 10-8
Hopping Channel Number	± 7.25 x 10-8
Dwell Time	± 0.37%
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-05-12	2024-05-11	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06	



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Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-05-12	2024-05-11	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: 1.18dBi; Right earbuds: 1.52dBi Antenna location: Refer to internal photo.



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

tandard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system. Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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Radio Spectrum Matter Test Results 7

Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

ANSI C63.10 (2013) Section 6.10.5 Test Method:

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 50.1 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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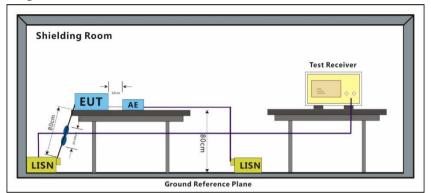
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7.1.3 Test Setup Diagram





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7.1.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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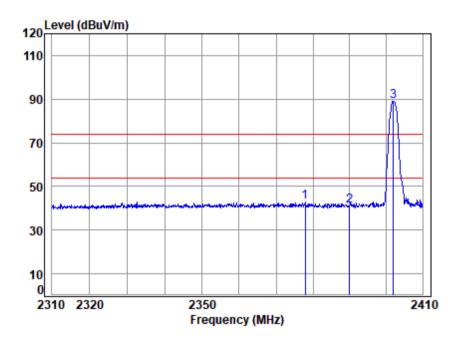
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2402 Band edge

Note : BT : L

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Line Limit Remark Freq Level MHz dBuV dBuV/m dBuV/m dB/m

1	2377.840	5.06	29.10	37.46	46.26	42.96	74.00 -31.04 peak
2	2390.000	5.08	29.10	37.44	44.45	41.19	74.00 -32.81 peak
3 p	2402.000	5.09	29.09	37.41	92.28	89.05	74.00 15.05 peak



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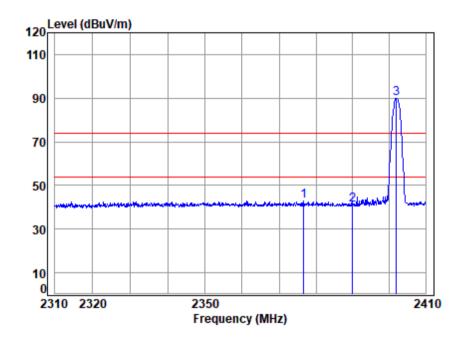
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT Mode : 2402 Band edge

Note : BT

> 1 2

: L

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2376.631 2390.000 p 2402.000	5.08	29.10	37.44	44.16	40.90	74.00	-33.10	peak



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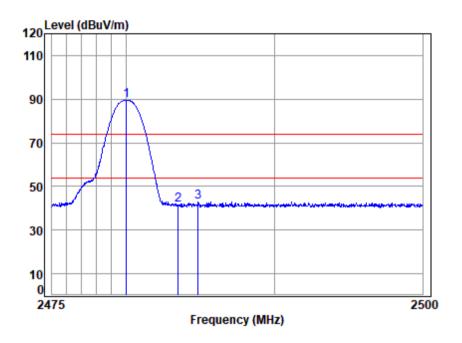
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2480 Band edge

Note : BT : L

3

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Line Limit Remark Freq Level dBuV dBuV/m dBuV/m MHz dB/m 1 p 2480.000 5.16 28.90 37.22 92.51 74.00 15.35 peak 89.35 2483.500 5.16 28.90 37.22 44.85 41.69 74.00 -32.31 peak 2484.820 5.16 28.90 37.21 46.08 42.93 74.00 -31.07 peak



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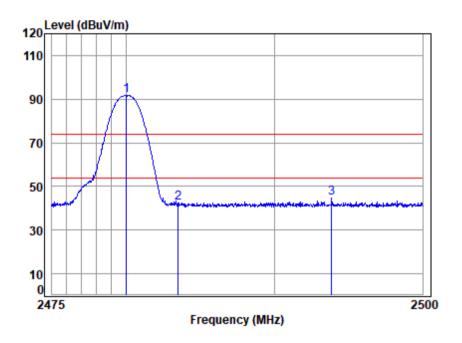
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT Mode : 2480 Band edge

Note : BT

: L

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500 2493.852								•



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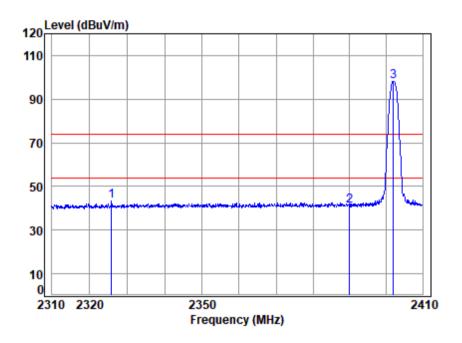
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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2402 Band edge

Note : BT : R

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Line Limit Remark Freq Level dBuV dBuV/m dBuV/m MHz dB/m

2325.815 5.02 28.76 37.59 46.93 43.12 74.00 -30.88 peak 2390.000 5.08 29.10 37.44 44.44 41.18 74.00 -32.82 peak 3 p 2402.000 5.09 29.09 37.41 101.26 98.03 74.00 24.03 peak



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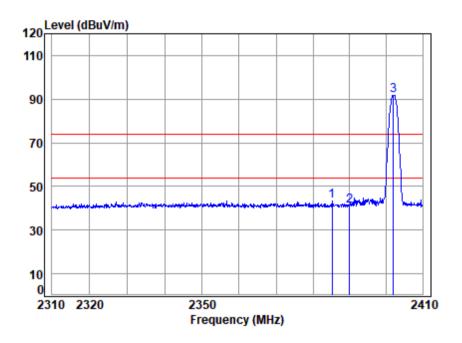
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Test Mode: 08; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT Mode : 2402 Band edge

Note : BT

> 1 2

: R

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2385.208 2390.000								•
n 2402 000	5 09	29 09	37 <i>4</i> 1	95 03	91 80	74 00	17 80	neak



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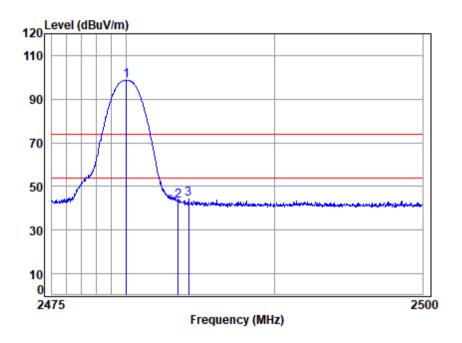
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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2480 Band edge

Note : BT

: R

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	5.16	28.90	37.22	101.60	98.44	74.00	24.44	peak
2	2483.500	5.16	28.90	37.22	46.59	43.43	74.00	-30.57	peak
3	2484.196	5.16	28.90	37.21	47.40	44.25	74.00	-29.75	peak



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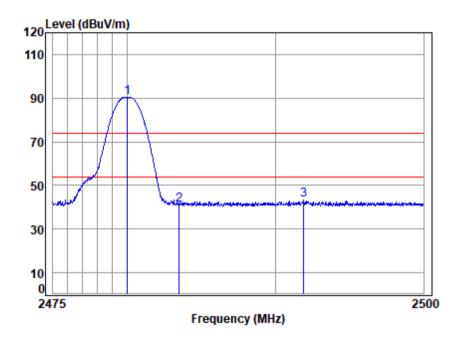
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Test Mode: 08; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT Mode : 2480 Band edge

Note : BT

: R

Fr	Cable eq Loss		Preamp Factor					Remark
М	Hz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 2480.0 2 2483.5								-
3 2491.8	73 5.17	28 90	37.20	46.55	43.42	74.00	-30.58	neak



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7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

	7.2.2 Test mode besorption							
Pre-scan / Final test	Mode Code	Description						
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						



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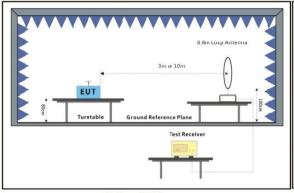
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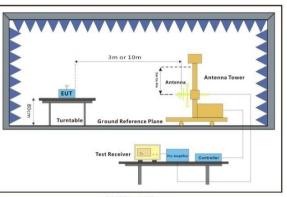


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7.2.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz

7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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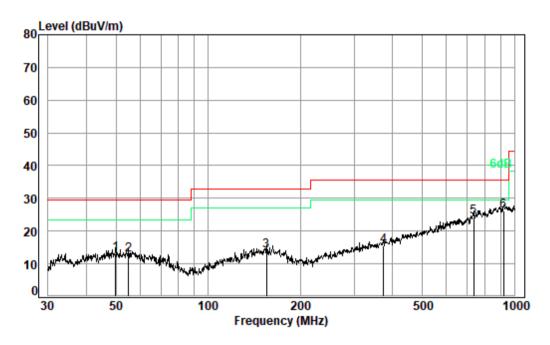
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Test Mode: 04; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 01414AT/01415AT

Test Mode: 04 : 3#

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4	40.004	26.72	40.40	0 54	33.50	42.03	20 50	46 57	OD.
1	49.881	26.73	18.19	0.51	32.50	12.93	29.50	-16.5/	Q٢
2	55.027	26.97	17.91	0.53	32.49	12.92	29.50	-16.58	QP
3	154.821	27.37	17.92	0.97	32.40	13.86	33.00	-19.14	QP
4	373.311	26.94	19.23	1.58	32.30	15.45	35.60	-20.15	QP
5	737.071	28.19	25.98	2.32	32.18	24.31	35.60	-11.29	QP
6 рр	922.516	27.08	27.81	2.63	31.35	26.17	35.60	-9.43	QP



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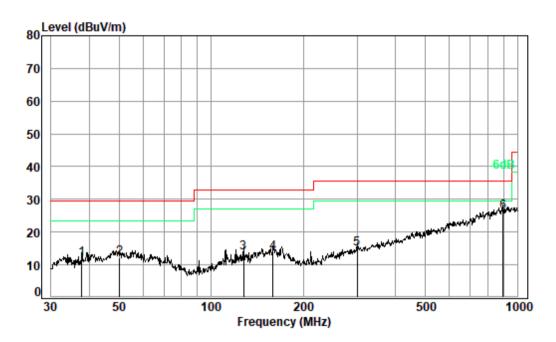
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Test Mode: 04; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 01414AT/01415AT

Test Mode: 04 : 3#

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.812	27.10	16.70	0.44	32.50	11.74	29.50	-17.76	QP
2	50.232	26.06	18.22	0.51	32.50	12.29	29.50	-17.21	QP
3	127.665	29.05	16.04	0.86	32.40	13.55	33.00	-19.45	QP
4		27.39	17.80	0.99	32.40	13.78	33.00	-19.22	QP
5	299.316	28.22	17.53	1.41	32.30	14.86	35.60	-20.74	QP
6 pp	896.997	27.63	27.34	2.61	31.42	26.16	35.60	-9.44	QP



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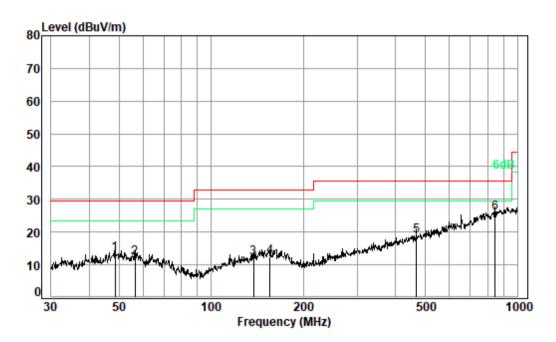
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Test Mode: 08; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 01414AT/01415AT

Test Mode: 08 : 3#

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.502	27 26	18 02	0 50	32 50	13 28	29 50	-16 22	ΩP
	56.395								_
	137.420								•
4	155.910	26.08	17.92	0.98	32.40	12.58	33.00	-20.42	QP
5	467.235	28.07	21.42	1.76	32.30	18.95	35.60	-16.65	QP
6 рр	845.088	28.10	26.80	2.53	31.72	25.71	35.60	-9.89	QP



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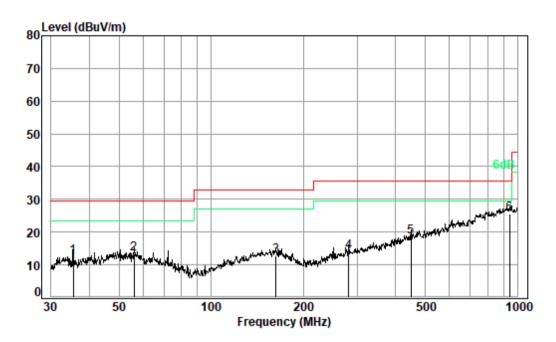
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Test Mode: 08; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 01414AT/01415AT

Test Mode: 08 : 3#

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4	35 400	20.07	16.60	0.43	22 50	42.60	20 50	46.00	OD
1	35.499	28.07	16.60	0.43	32.50	12.60	29.50	-16.90	Q٢
2	56.001	27.45	17.80	0.53	32.48	13.30	29.50	-16.20	QP
3	162.611	26.62	17.69	1.00	32.40	12.91	33.00	-20.09	QP
4	281.008	27.96	17.09	1.36	32.32	14.09	35.60	-21.51	QP
5	449.556	28.01	21.15	1.73	32.30	18.59	35.60	-17.01	QP
6 pp	942.131	26.38	27.93	2.64	31.31	25.64	35.60	-9.96	QP



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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.3.1 E.U.T. Operation

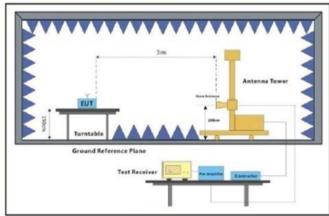
Operating Environment:

Humidity: 50.2 % RH Temperature: 21.2 °C Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.0.2 TCSt 14	ouc Dc.	scription
	Mode Code	Description
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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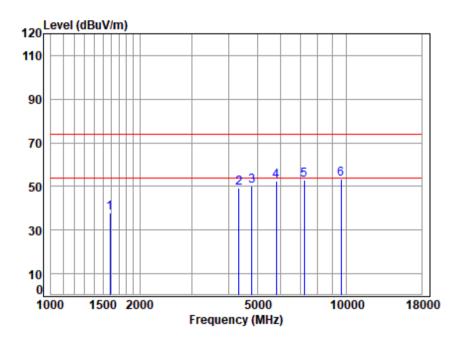
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2402 TX RSE

: BT

: 1

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1587.975	4.18	26.85	38.40	45.43	38.06	74.00	-35.94	peak
2		4341.886	7.02	34.34	35.84	43.84	49.36	74.00	-24.64	peak
3		4804.000	7.31	34.32	35.52	44.31	50.42	74.00	-23.58	peak
4		5797.032	8.03	34.29	34.99	45.23	52.56	74.00	-21.44	peak
5		7206.000	9.18	35.70	35.79	43.99	53.08	74.00	-20.92	peak
6	р	9608.000	12.36	37.42	37.46	40.85	53.17	74.00	-20.83	peak



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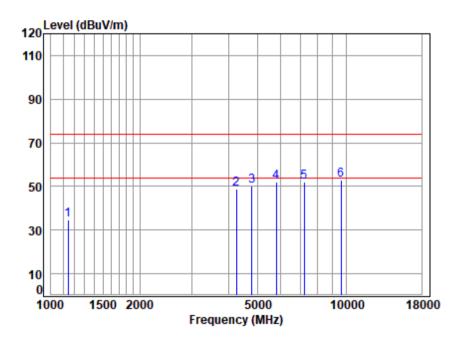
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Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT

Mode : 2402 TX RSE

> : BT : 1

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	3.48	23.87	38.33	45.87	34.89	74.00	-39.11	peak
2	4254.921	6.96	33.82	35.90	43.93	48.81	74.00	-25.19	peak
3	4804.000	7.31	34.32	35.52	44.08	50.19	74.00	-23.81	peak
4	5797.032	8.03	34.29	34.99	44.57	51.90	74.00	-22.10	peak
5	7206.000	9.18	35.70	35.79	42.96	52.05	74.00	-21.95	peak
6	p 9608.000	12.36	37.42	37.46	40.75	53.07	74.00	-20.93	peak



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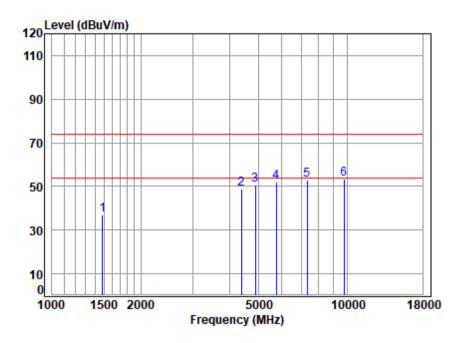
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT

Mode : 2441 TX RSE

: BT : L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1485.841	4.04	26.40	38.39	44.69	36.74	74.00	-37.26	peak
2	4379.699	7.04	34.64	35.81	43.06	48.93	74.00	-25.07	peak
3	4882.000	7.36	34.63	35.47	43.96	50.48	74.00	-23.52	peak
4	5763.617	8.01	34.23	35.01	44.87	52.10	74.00	-21.90	peak
5	7323.000	9.32	35.70	35.90	43.93	53.05	74.00	-20.95	peak
6	p 9764.000	12.47	37.37	37.42	41.03	53.45	74.00	-20.55	peak



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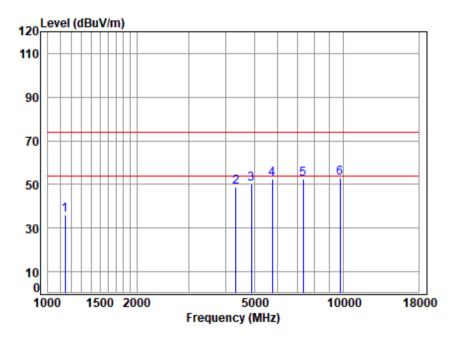
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT

Mode : 2441 TX RSE

> : BT : L

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	3.48	23.88	38.33	46.90	35.93	74.00	-38.07	peak
2	4329.354	7.01	34.23	35.85	43.63	49.02	74.00	-24.98	peak
3	4882.000	7.36	34.63	35.47	43.62	50.14	74.00	-23.86	peak
4	5763.617	8.01	34.23	35.01	45.18	52.41	74.00	-21.59	peak
5	7323.000	9.32	35.70	35.90	43.33	52.45	74.00	-21.55	peak
6	p 9764.000	12.47	37.37	37.42	40.53	52.95	74.00	-21.05	peak



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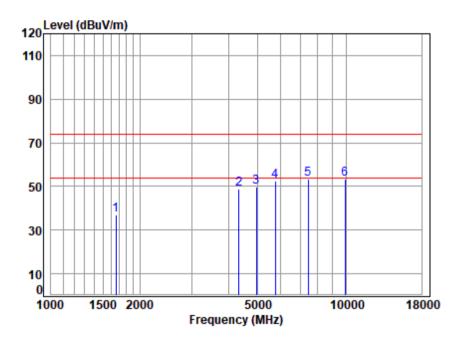
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Test Mode: 04; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2480 TX RSE

> : BT : L

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	4.28	26.27	38.41	44.62	36.76	74.00	-37.24	peak
2		4341.886	7.02	34.34	35.84	43.41	48.93	74.00	-25.07	peak
3		4960.000	7.41	34.56	35.42	43.01	49.56	74.00	-24.44	peak
4	ļ	5746.982	8.00	34.21	35.02	45.27	52.46	74.00	-21.54	peak
5		7440.000	9.46	35.96	36.02	44.09	53.49	74.00	-20.51	peak
6	р	9920.000	12.58	37.30	37.39	41.03	53.52	74.00	-20.48	peak



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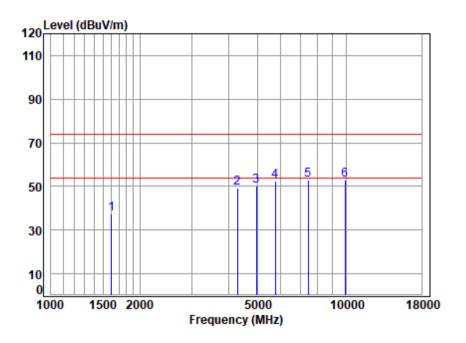
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Test Mode: 04; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT

Mode : 2480 TX RSE

> : BT : L

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	4.20	26.78	38.40	44.90	37.48	74.00	-36.52	peak
2		4291.977	6.99	33.97	35.88	44.03	49.11	74.00	-24.89	peak
3		4960.000	7.41	34.56	35.42	43.49	50.04	74.00	-23.96	peak
4		5763.617	8.01	34.23	35.01	45.17	52.40	74.00	-21.60	peak
5	р	7440.000	9.46	35.96	36.02	43.71	53.11	74.00	-20.89	peak
6		9920.000	12.58	37.30	37.39	40.59	53.08	74.00	-20.92	peak



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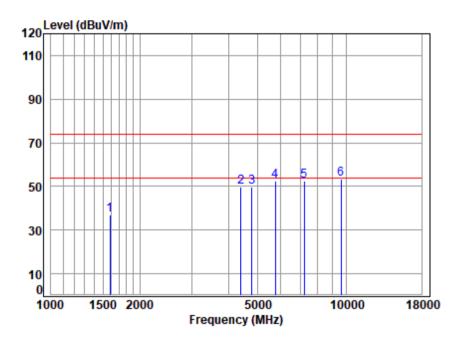
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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2402 TX RSE

: BT : R

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1587.975	4.18	26.85	38.40	44.43	37.06	74.00	-36.94	peak
2		4405.090	7.06	34.74	35.79	43.69	49.70	74.00	-24.30	peak
3		4804.000	7.31	34.32	35.52	43.51	49.62	74.00	-24.38	peak
4		5763.617	8.01	34.23	35.01	45.07	52.30	74.00	-21.70	peak
5		7206.000	9.18	35.70	35.79	43.39	52.48	74.00	-21.52	peak
6	р	9608.000	12.36	37.42	37.46	41.05	53.37	74.00	-20.63	peak



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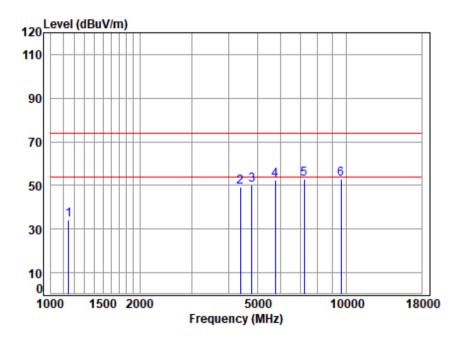
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Test Mode: 08; Polarity: Vertical; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT

Mode : 2402 TX RSE

> : BT : R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1148.823	3.49	23.90	38.33	45.19	34.25	74.00	-39.75	peak
2	4379.699	7.04	34.64	35.81	43.36	49.23	74.00	-24.77	peak
3	4804.000	7.31	34.32	35.52	44.27	50.38	74.00	-23.62	peak
4	5763.617	8.01	34.23	35.01	45.37	52.60	74.00	-21.40	peak
5	7206.000	9.18	35.70	35.79	43.68	52.77	74.00	-21.23	peak
6	p 9608.000	12.36	37.42	37.46	40.72	53.04	74.00	-20.96	peak



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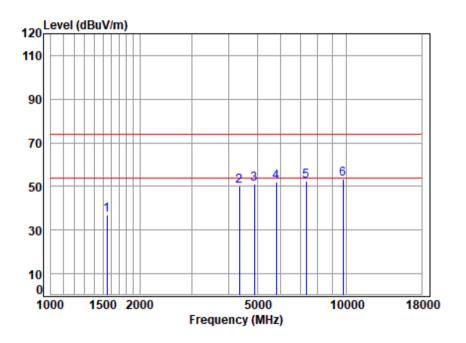
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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2441 TX RSE

: BT : R

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	4.13	26.99	38.39	44.18	36.91	74.00	-37.09	peak
2	4354.454	7.03	34.44	35.83	44.34	49.98	74.00	-24.02	peak
3	4882.000	7.36	34.63	35.47	44.52	51.04	74.00	-22.96	peak
4	5797.032	8.03	34.29	34.99	44.87	52.20	74.00	-21.80	peak
5	7323.000	9.32	35.70	35.90	43.55	52.67	74.00	-21.33	peak
6	p 9764.000	12.47	37.37	37.42	40.85	53.27	74.00	-20.73	peak



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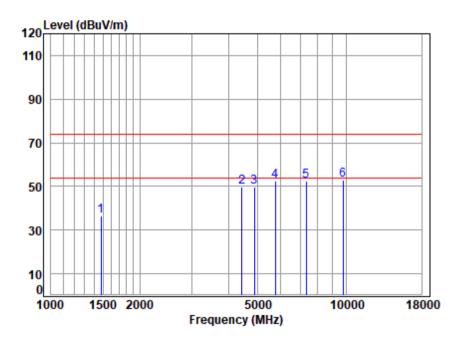
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Test Mode: 08; Polarity: Vertical; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT

Mode : 2441 TX RSE

> : BT : R

	_									
			Cable	Ant	Preamp	Read		Limit	0ver	
	Fr	req	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	M	1Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1477.2	276	4.03	26.16	38.38	44.70	36.51	74.00	-37.49	peak
2	4430.6	528	7.08	34.43	35.77	44.09	49.83	74.00	-24.17	peak
3	4882.6	900	7.36	34.63	35.47	43.03	49.55	74.00	-24.45	peak
4	5763.6	517	8.01	34.23	35.01	45.43	52.66	74.00	-21.34	peak
5	7323.6	900	9.32	35.70	35.90	43.29	52.41	74.00	-21.59	peak
6	p 9764.6	900	12.47	37.37	37.42	40.67	53.09	74.00	-20.91	peak



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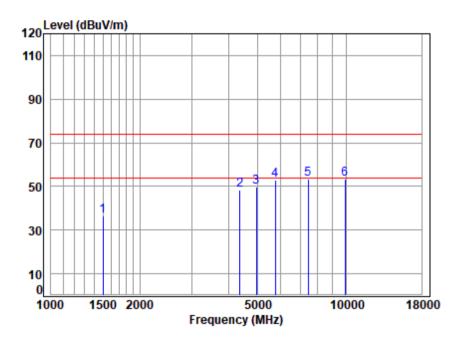
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Test Mode: 08; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 01414AT/01415AT Mode : 2480 TX RSE

: BT

: R

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1503.119	4.07	26.81	38.39	44.12	36.61	74.00	-37.39	peak
2		4367.058	7.04	34.54	35.82	42.78	48.54	74.00	-25.46	peak
3		4960.000	7.41	34.56	35.42	43.15	49.70	74.00	-24.30	peak
4		5763.617	8.01	34.23	35.01	45.52	52.75	74.00	-21.25	peak
5		7440.000	9.46	35.96	36.02	43.77	53.17	74.00	-20.83	peak
6	р	9920.000	12.58	37.30	37.39	41.08	53.57	74.00	-20.43	peak



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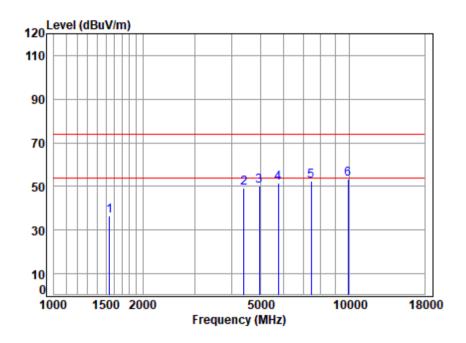
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Test Mode: 08; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 01414AT/01415AT

Mode : 2480 TX RSE

> : BT : R

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1542.733	4.12	26.97	38.39	43.74	36.44	74.00	-37.56	peak
2		4405.090	7.06	34.74	35.79	43.41	49.42	74.00	-24.58	peak
3		4960.000	7.41	34.56	35.42	43.42	49.97	74.00	-24.03	peak
4		5763.617	8.01	34.23	35.01	44.54	51.77	74.00	-22.23	peak
5		7440.000	9.46	35.96	36.02	43.14	52.54	74.00	-21.46	peak
6	р	9920.000	12.58	37.30	37.39	40.95	53.44	74.00	-20.56	peak



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7.4 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(1) Test Requirement Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:

22.9 °C Temperature: Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

	14.2 Test mode besomption								
Pre-scan / Final test	Mode Code	Description							
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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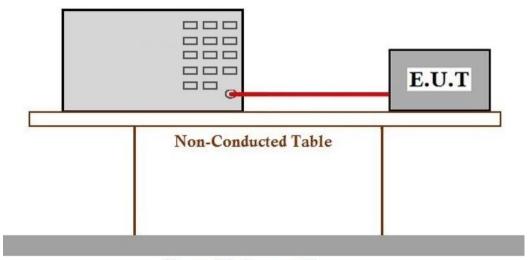
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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1) Test Method: ANSI C63.10 (2013) Section 7.8.7

7.5.1 E.U.T. Operation

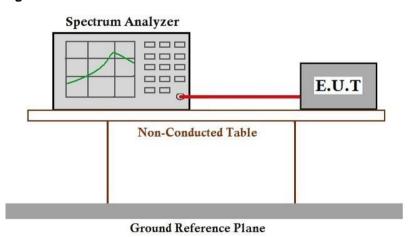
Operating Environment:

Temperature: 22.9 °C Atmospheric Pressure: 1020 mbar Humidity: 43.5 % RH

7.5.2 Test Mode Description

7.0.2 100111	10.2 Test mode bescription							
Pre-scan / Final test	Mode Code	Description						
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1) Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 22.9 °C Humidity: 43.5 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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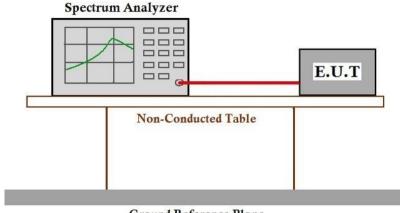
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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7.7 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)				
902-928	50 for 20dB bandwidth <250kHz				
902-926	25 for 20dB bandwidth ≥250kHz				
2400-2483.5	15				
5725-5850	75				

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	03	TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							
Final test	07	TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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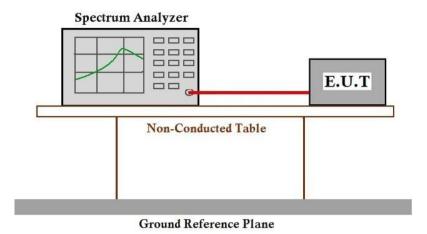
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii) Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit			
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)			
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)			
2400 2402 5	0.4S within a period of 0.4S multiplied by the number			
2400-2483.5	of hopping channels			
5725-5850	0.4S within a 30S period			

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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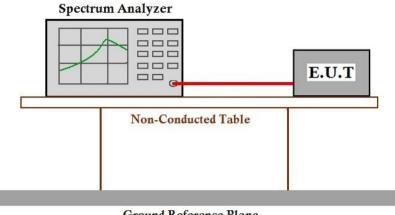
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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX_Hop mode(Left earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	07	TX_Hop mode(Right earbuds)_Keep the EUT in frequency hopping mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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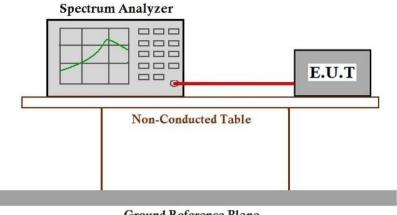
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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

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7.10 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

	7.10.2 Test mode bescription								
Pre-scan / Final test	Mode Code	Description							
Final test	04	TX_non-Hop mode(Left earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							
Final test	08	TX_non-Hop mode(Right earbuds)_Keep the EUT in continuously transmitting mode with GFSK modulation, pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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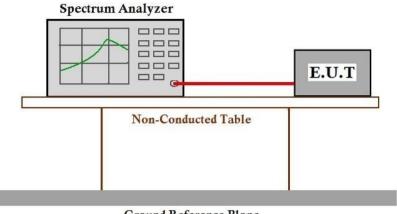
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7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo

Refer to Setup Photo for SZCR2404001414AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2404001414AT



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10 Appendix

For right earbuds:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1									
Mode	TX	Frequency	Packet	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
Mode	Type	(MHz)	Type	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
GFSK	SISO	2402	DH5	2.889	4.998	57.80	2.38	0.02	
		2441	DH5	2.889	5.001	57.77	2.38	0.04	
		2480	DH5	2.889	5.001	57.77	2.38	0.04	
	SISO	2402	2DH5	2.896	5.001	57.91	2.37	0.04	
Pi/4DQPSK		2441	2DH5	2.896	5.000	57.92	2.37	0.02	
		2480	2DH5	2.896	5.000	57.92	2.37	0.02	
8DPSK	SISO	2402	3DH5	2.896	5.000	57.92	2.37	0.04	
		2441	3DH5	2.896	5.001	57.91	2.37	0.04	
		2480	3DH5	2.896	5.000	57.92	2.37	0.04	



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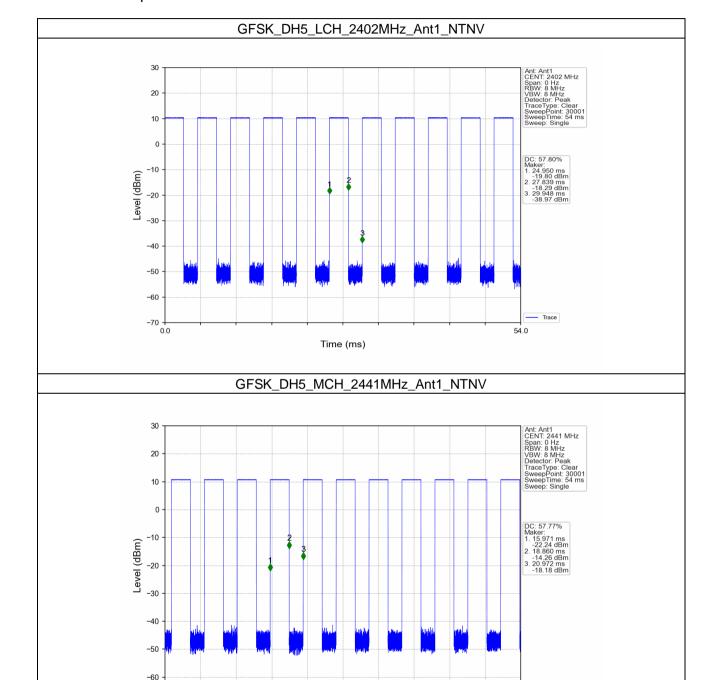
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1.1.2 Test Graph





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Time (ms)

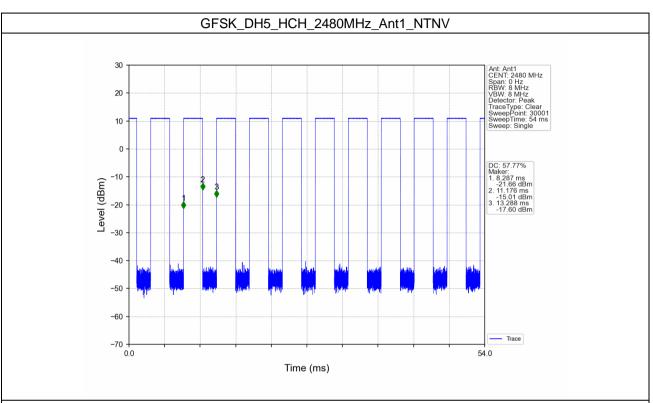
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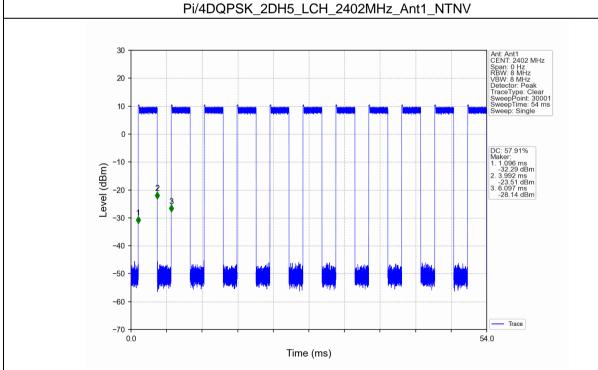
Trace



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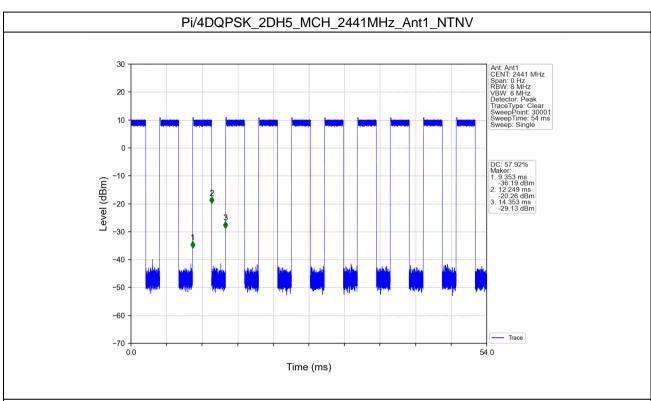
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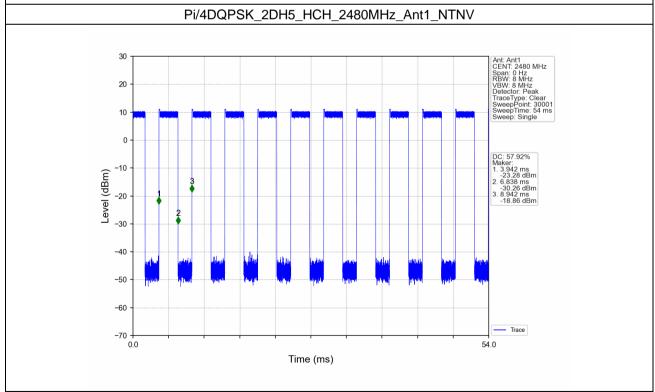
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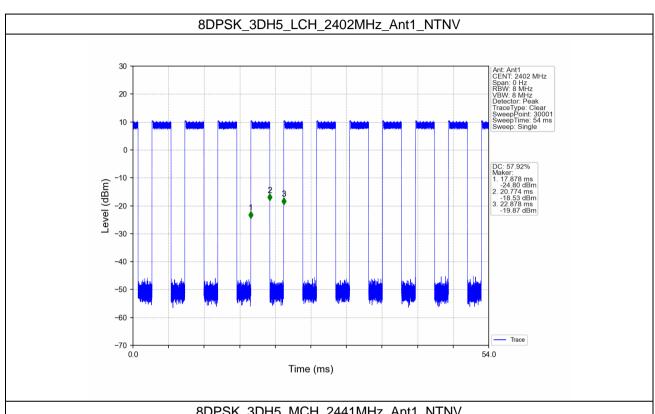
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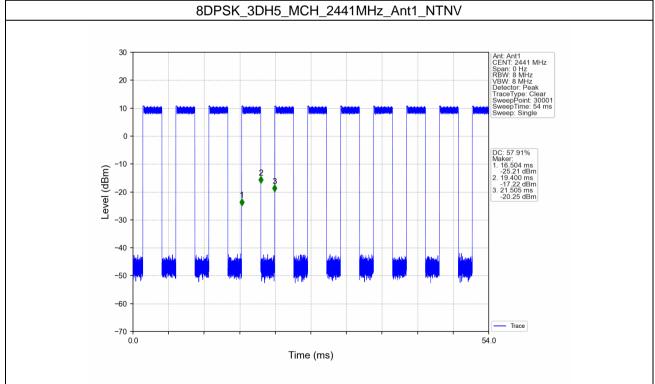
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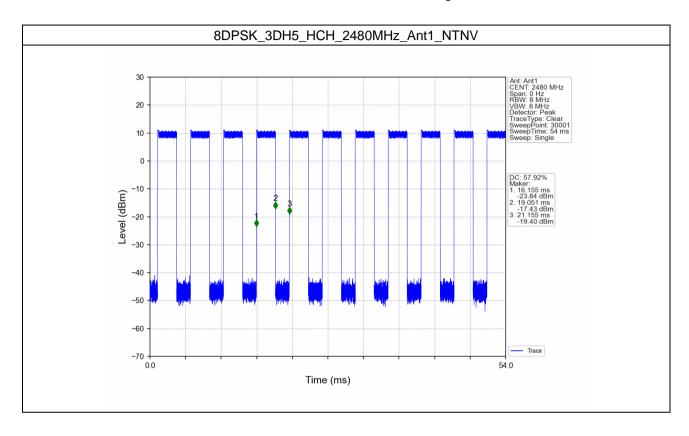
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency		ANT	99% Occupied E	\/ordiot		
		(MHz)			Result	Limit	Verdict	
	SISO	2402	DH5	1	0.910	/	Pass	
GFSK		2441	DH5	1	0.928	/	Pass	
		2480	DH5	1	0.929	/	Pass	
	SISO	2402	2DH5	1	1.118	/	Pass	
Pi/4DQPSK		2441	2DH5	1	1.122	/	Pass	
		2480	2DH5	1	1.126	/	Pass	
8DPSK	SISO		2402	3DH5	1	1.134	/	Pass
		2441	3DH5	1	1.134	/	Pass	
		2480	3DH5	1	1.133	/	Pass	



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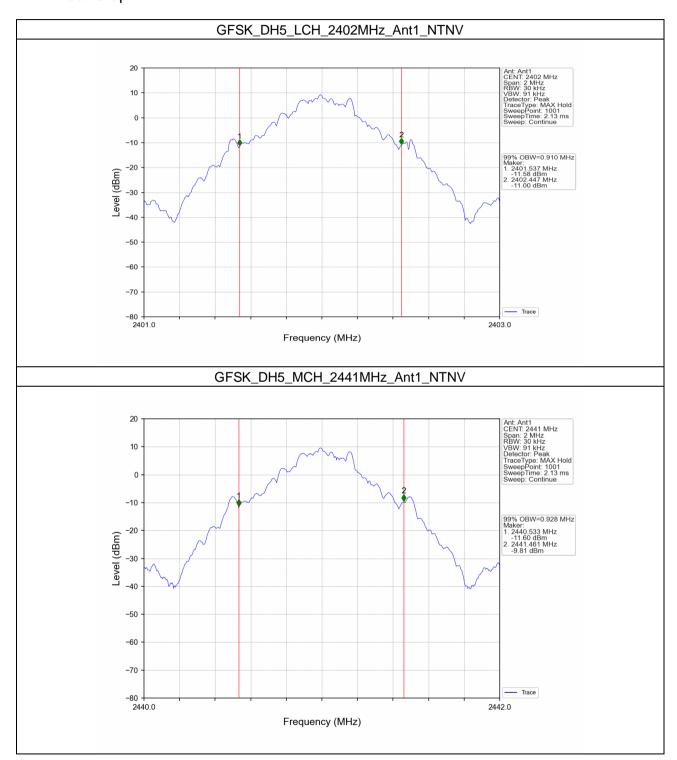
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2.1.2 Test Graph





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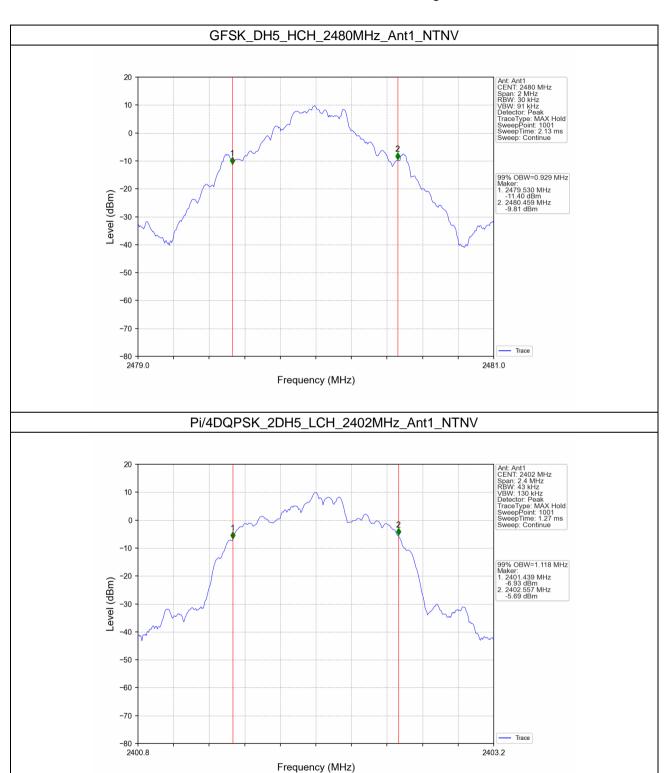
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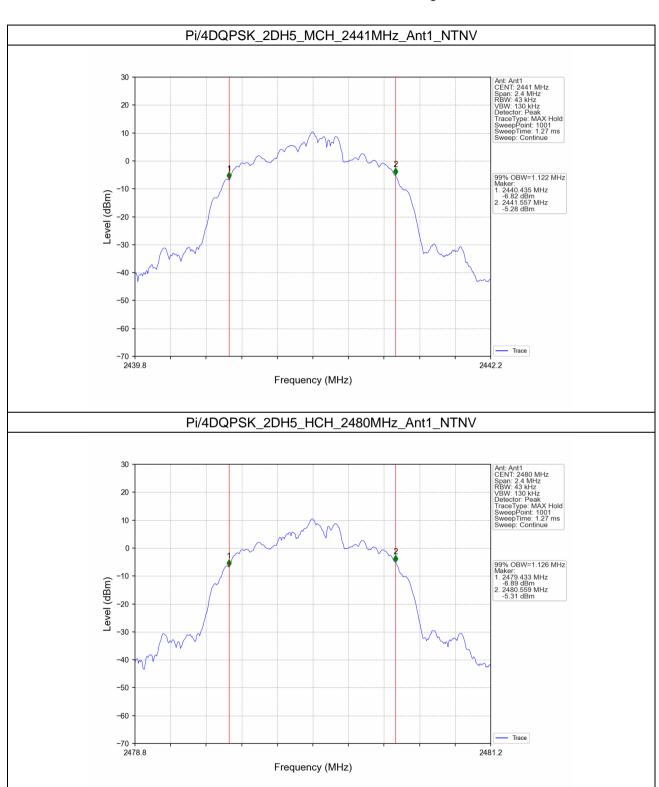
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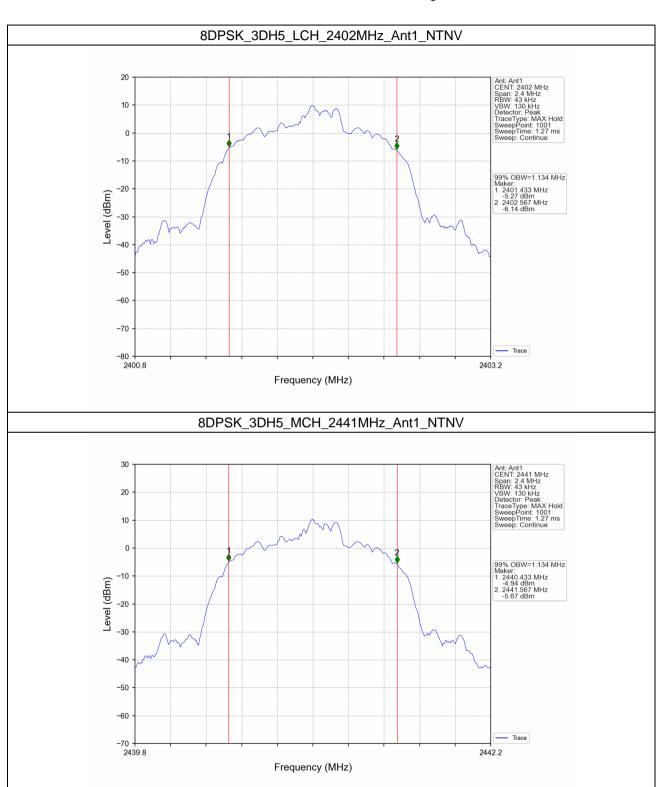
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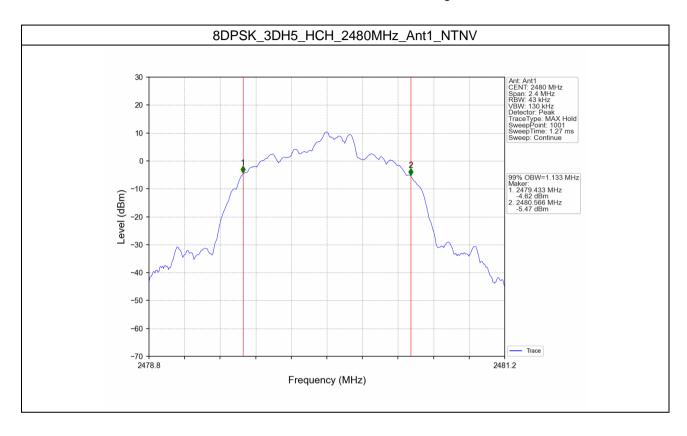
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2.2 20dB BW

2.2.1 Test Result

Mode	TX	Frequency	Packet Type	ANT	20dB Bandwidth (MHz)		Vardiet
Mode	Type	(MHz)			Result	Limit	Verdict
	SISO	2402	DH5	1	1.095	/	Pass
GFSK		2441	DH5	1	1.096	/	Pass
		2480	DH5	1	1.091	/	Pass
	SISO	2402	2DH5	1	1.310	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.314	/	Pass
		2480	2DH5	1	1.315	/	Pass
8DPSK	SISO	2402	3DH5	1	1.335	/	Pass
		2441	3DH5	1	1.337	/	Pass
		2480	3DH5	1	1.338	/	Pass



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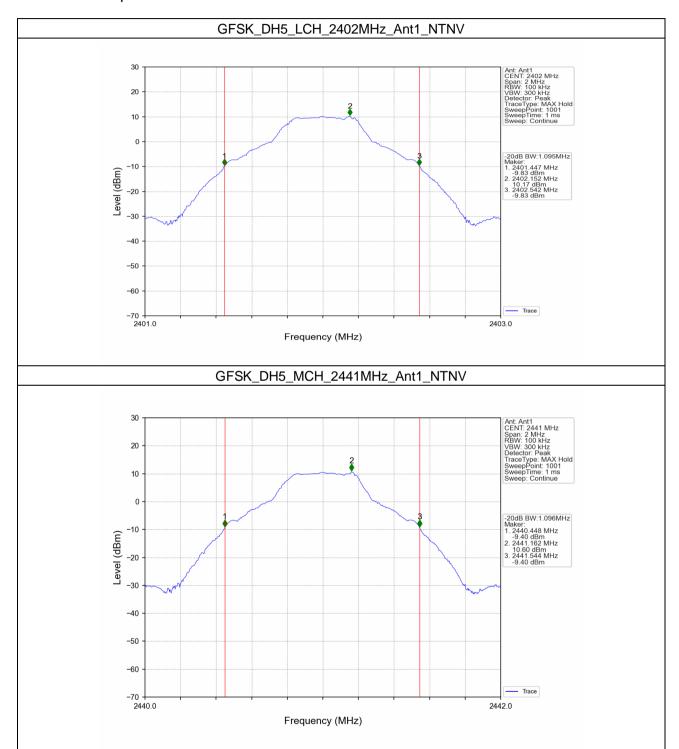
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2.2.2 Test Graph





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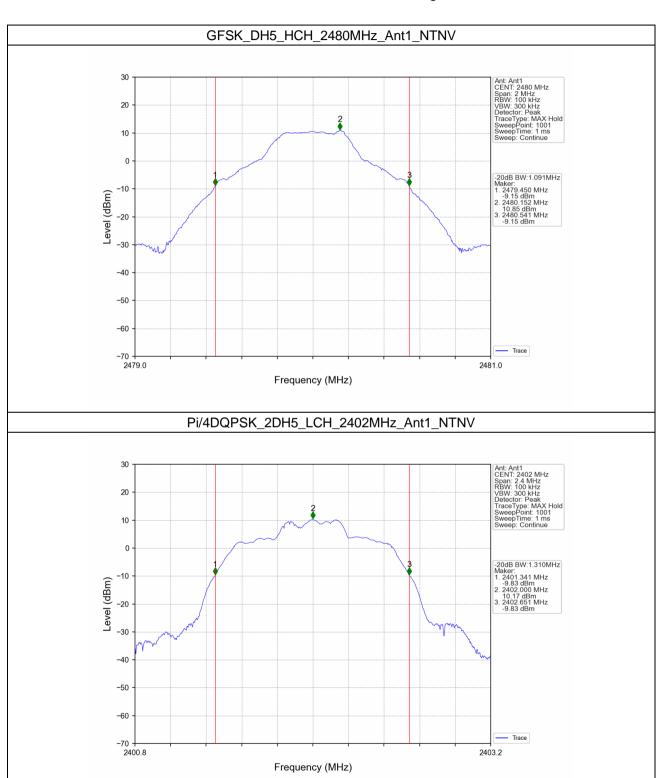
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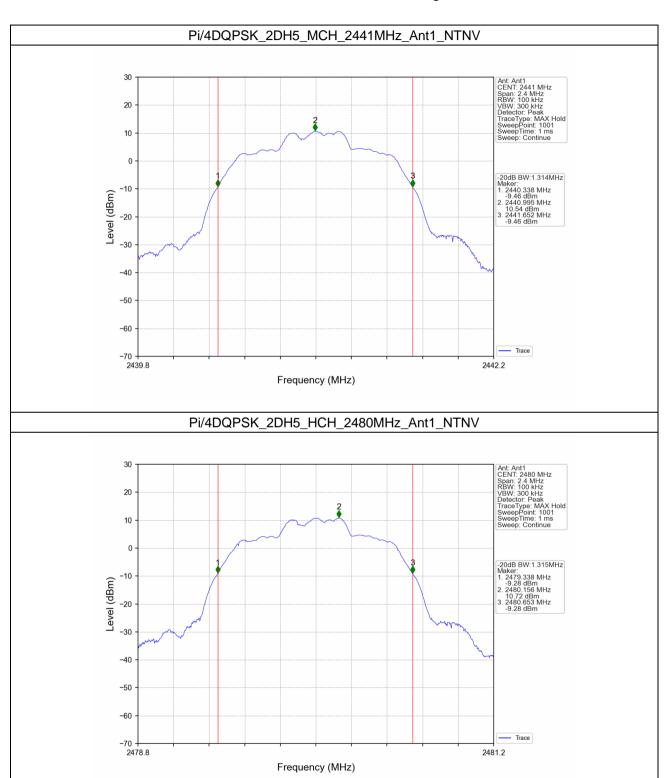
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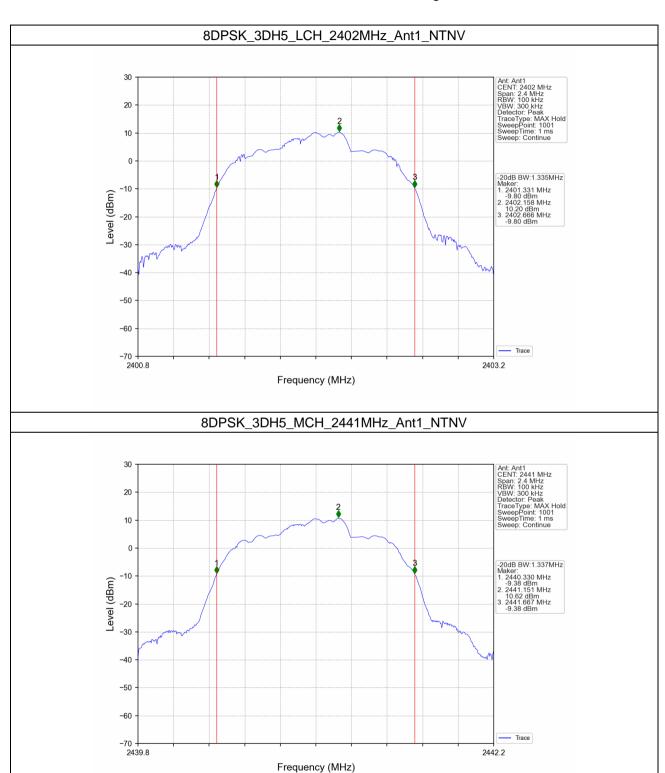
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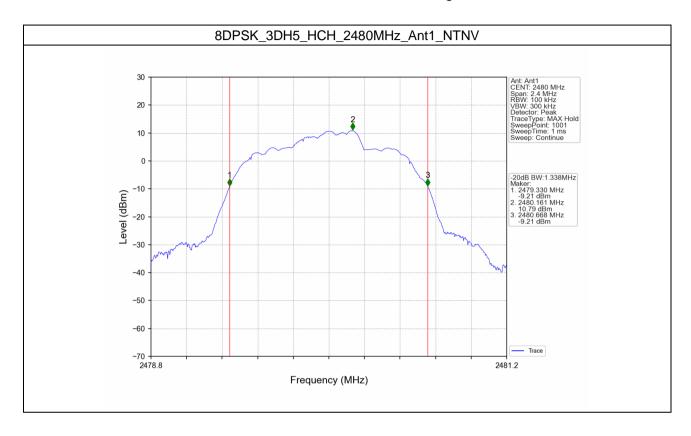
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Cone (dE	Verdict	
				ANT1	Limit	
GFSK	SISO	2402	DH5	10.38	<=20.97	Pass
		2441	DH5	10.75	<=20.97	Pass
		2480	DH5	10.98	<=20.97	Pass
	SISO	2402	2DH5	10.39	<=20.97	Pass
Pi/4DQPSK		2441	2DH5	10.75	<=20.97	Pass
			2480	2DH5	10.97	<=20.97
8DPSK	SISO	2402	3DH5	10.41	<=20.97	Pass
		2441	3DH5	10.76	<=20.97	Pass
			2480	3DH5	10.95	<=20.97

4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict		
GFSK	SISO	HOPP	DH5	1.006	1.096	>=0.731	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.315	>=0.877	Pass		
8DPSK	SISO	HOPP	3DH5	0.991	1.338	>=0.892	Pass		



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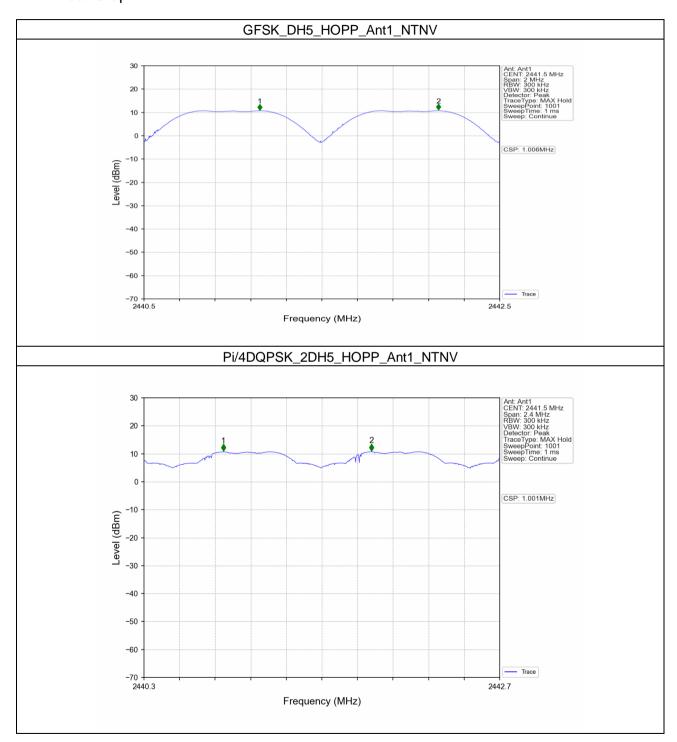
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4.1.2 Test Graph





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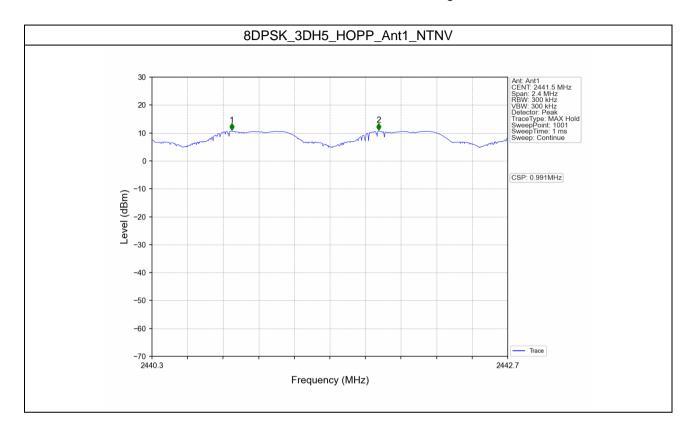
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5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

Mode	TX	Frequency	Packet	Num of Hopping Frequencies		\/ordiot	
	Type	oe (MHz)	Type	ANT1	Limit	Verdict	
GFSK	SISO	HOPP	DH5	79	>=15	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass	
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass	



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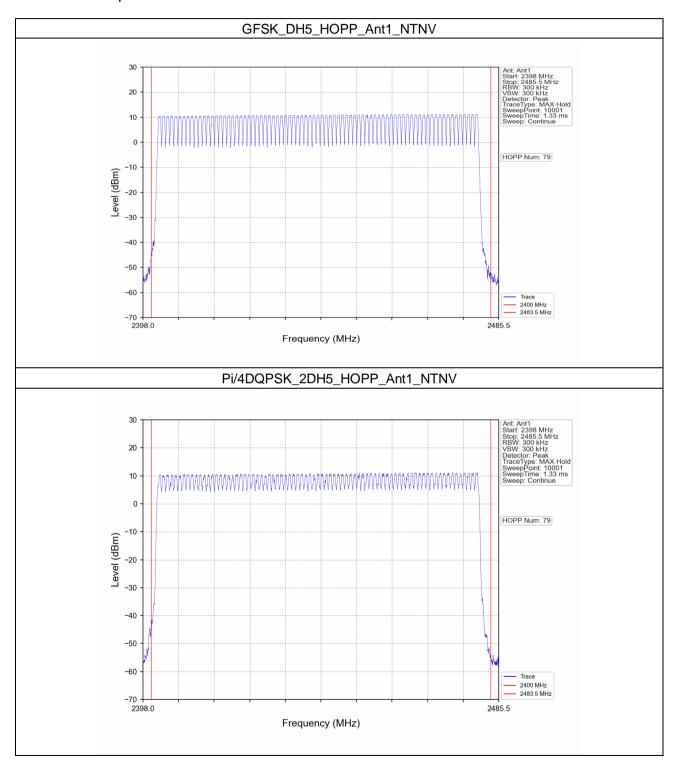
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5.1.2 Test Graph





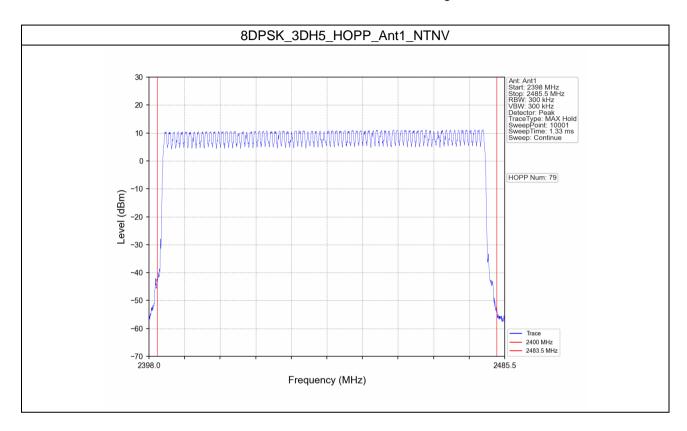
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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

	Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict	
		SISO HOPP	DH1	0.388	31.600	152	58.976	<=400	Pass	
GFSK S	SISO		DH3	1.644	31.600	112	184.128	<=400	Pass	
			DH5	2.894	31.600	74	214.156	<=400	Pass	
			2DH1	0.396	31.600	168	66.528	<=400	Pass	
Pi/4DQPSK	SISO	O HOPP	2DH3	1.654	31.600	97	160.438	<=400	Pass	
			2DH5	2.900	31.600	76	220.400	<=400	Pass	
		SO HOPP	3DH1	1.652	31.600	115	189.980	<=400	Pass	
8DPSK	SISO		3DH3	1.648	31.600	112	184.576	<=400	Pass	
			3DH5	2.904	31.600	86	249.744	<=400	Pass	



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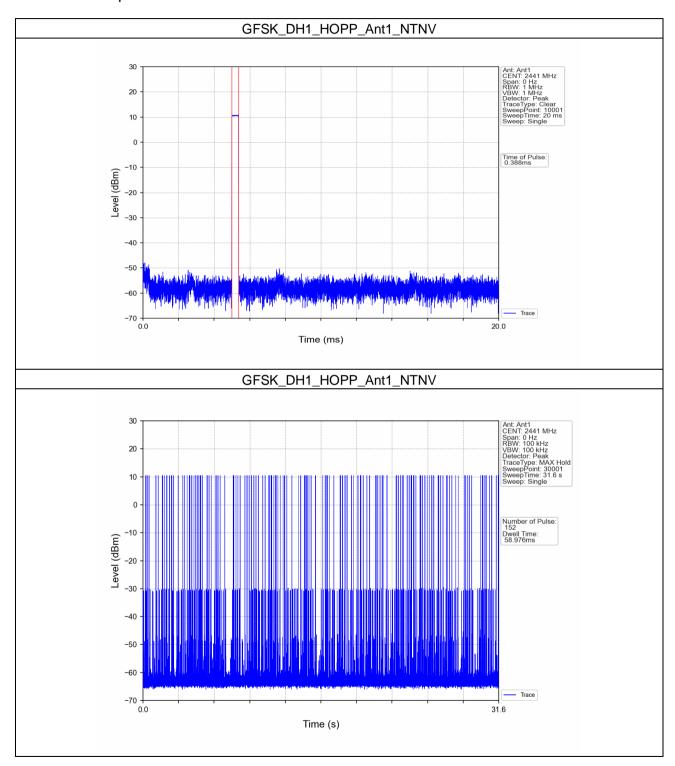
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6.1.2 Test Graph





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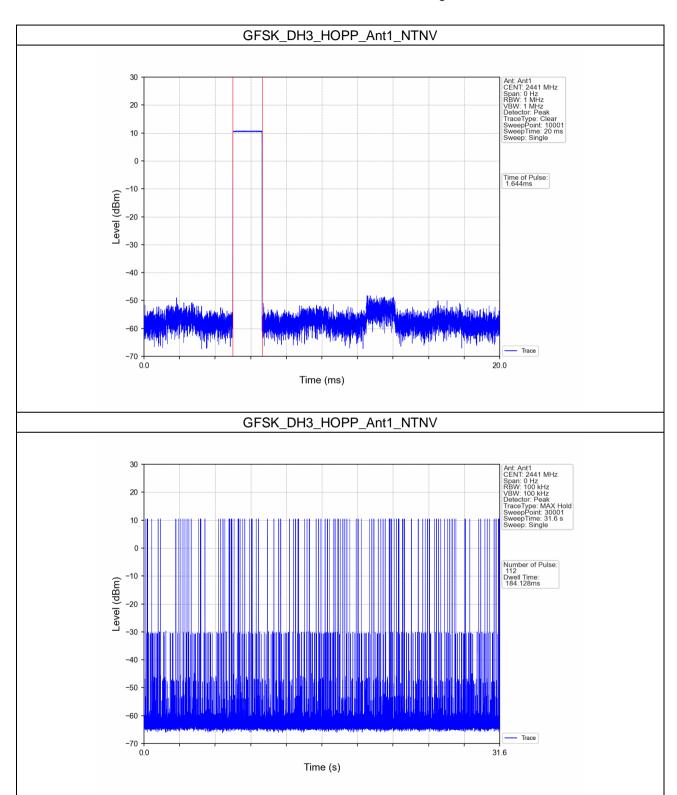
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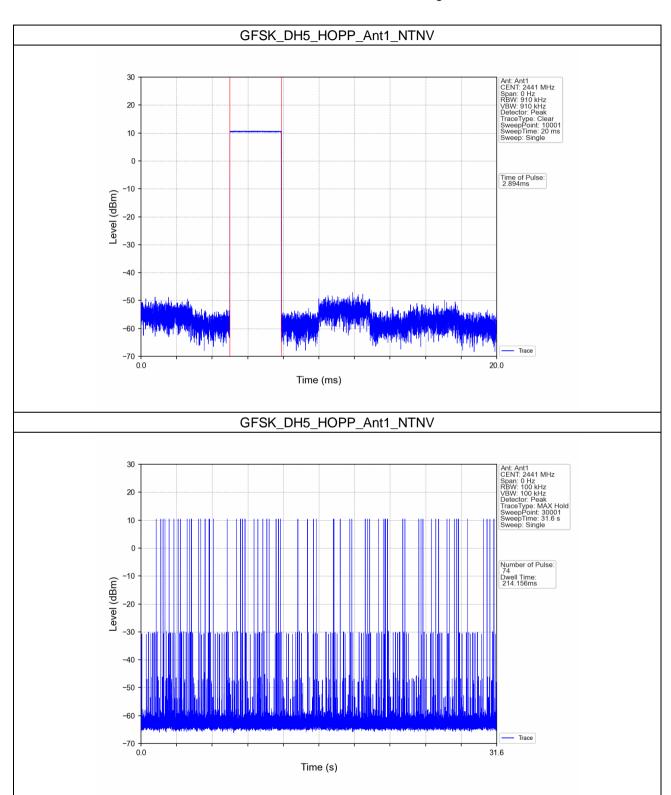
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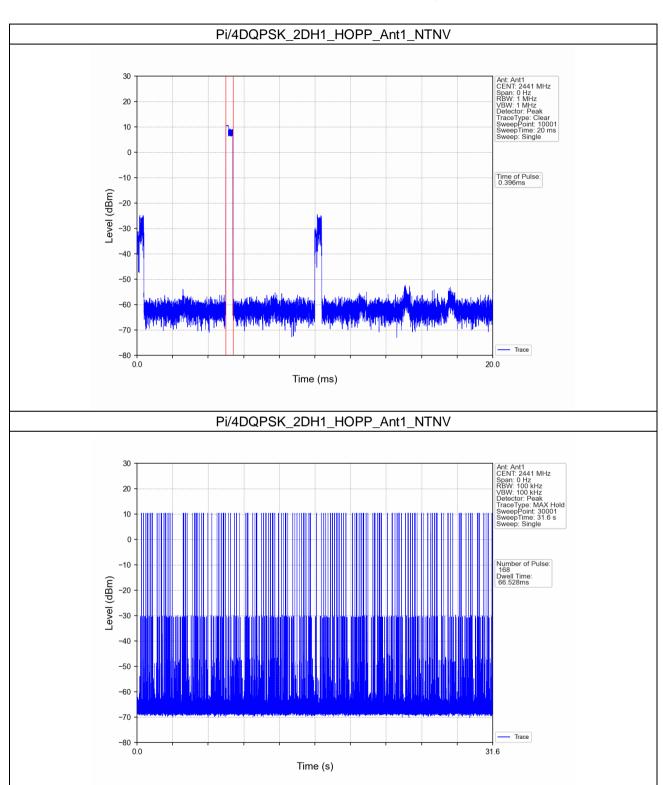
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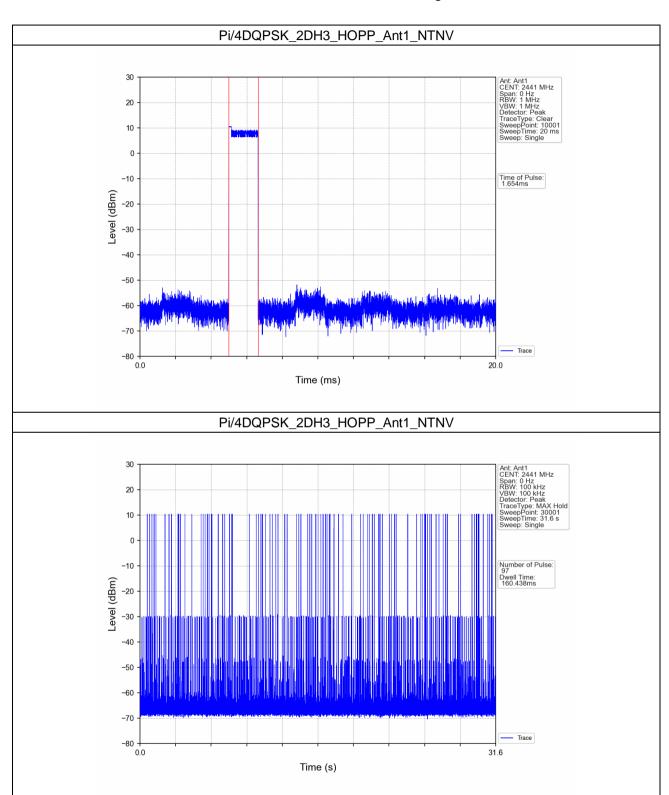
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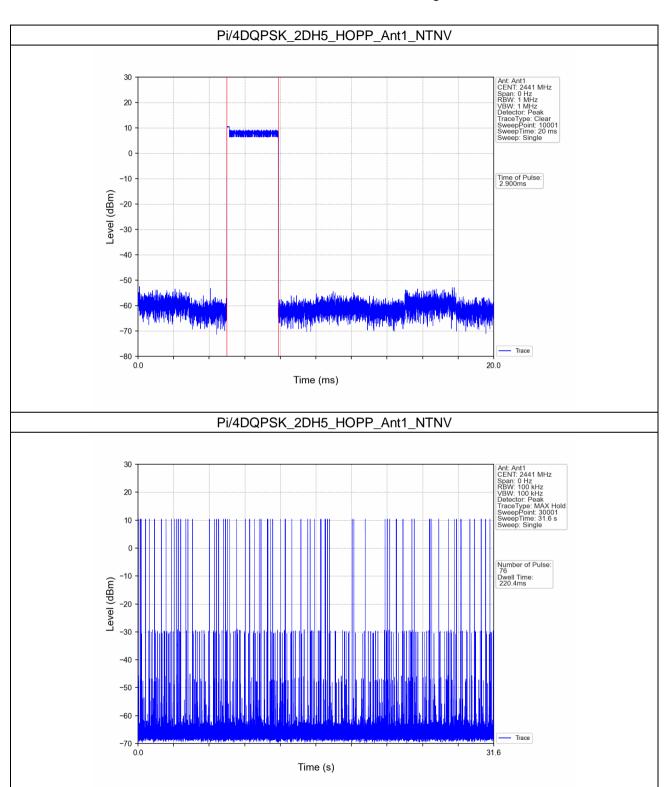
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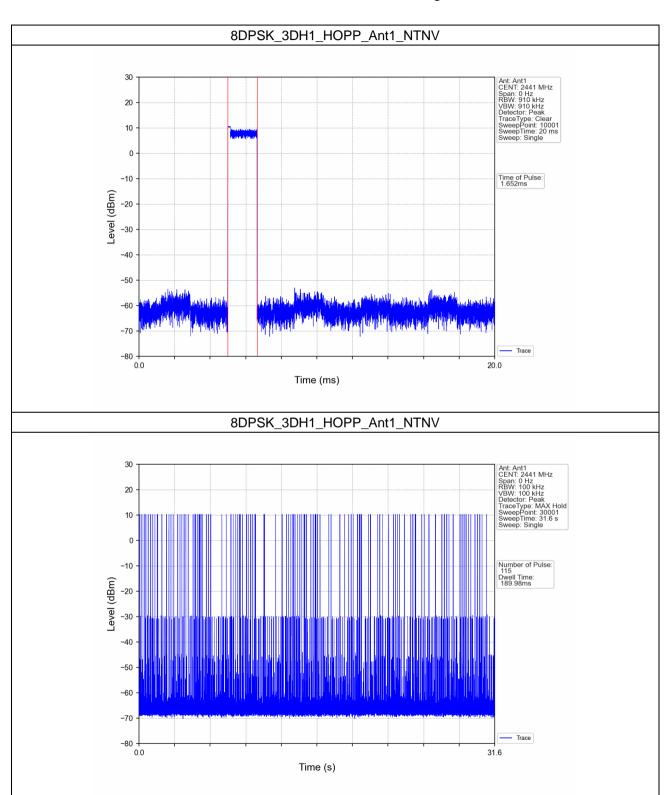
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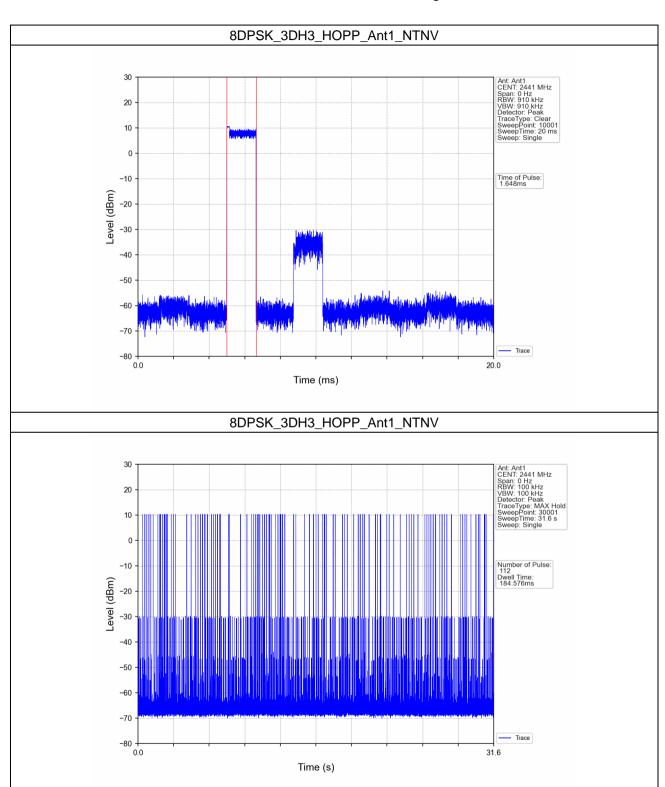
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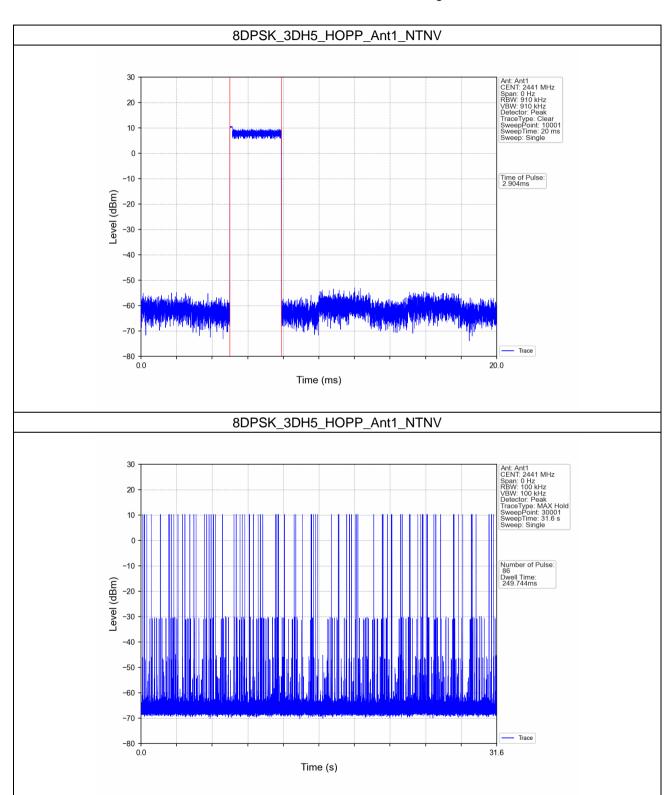
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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	
		2402	DH5	1	10.18	
GFSK	SISO	2441	2441 DH5		10.65	
		2480	DH5	1	10.80	
	SISO	2402	2DH5	1	10.16	
Pi/4DQPSK		2441	2DH5	1	10.53	
		2480	2DH5	1	10.69	
		2402	3DH5	1	10.19	
8DPSK	SISO	2441	3DH5	1	10.63	
		2480	3DH5	1	10.81	



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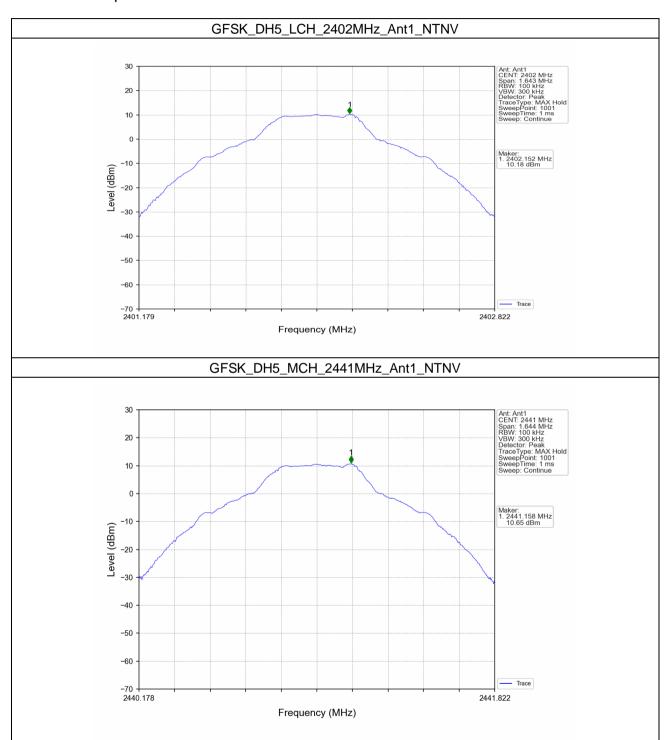
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7.1.2 Test Graph





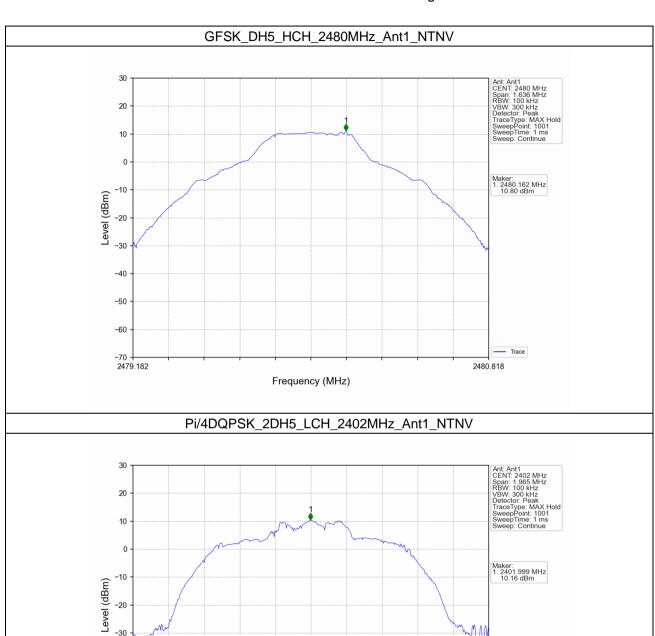
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-40

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Frequency (MHz)

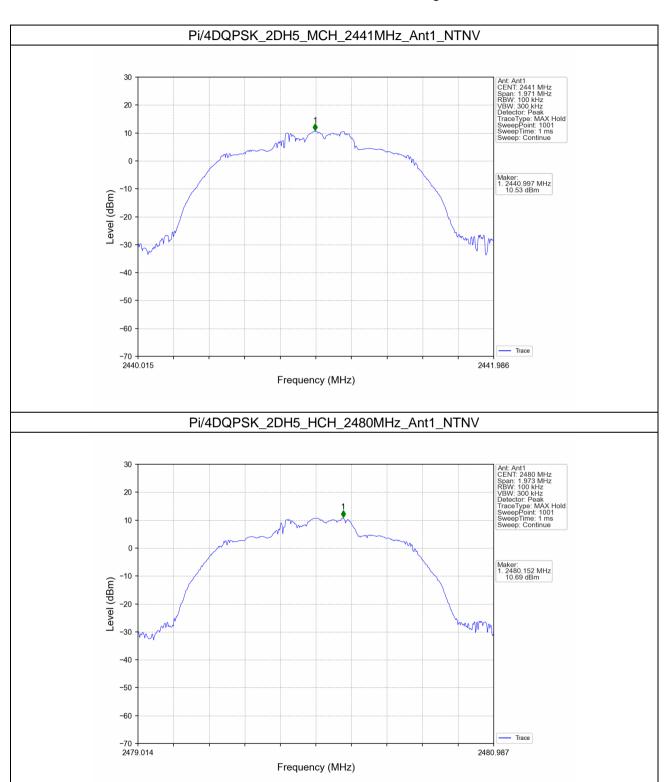
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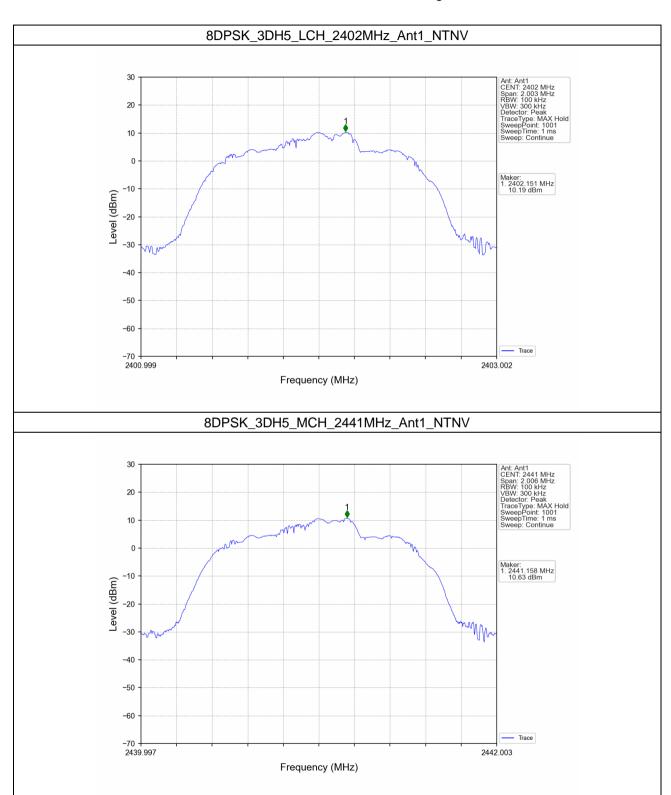
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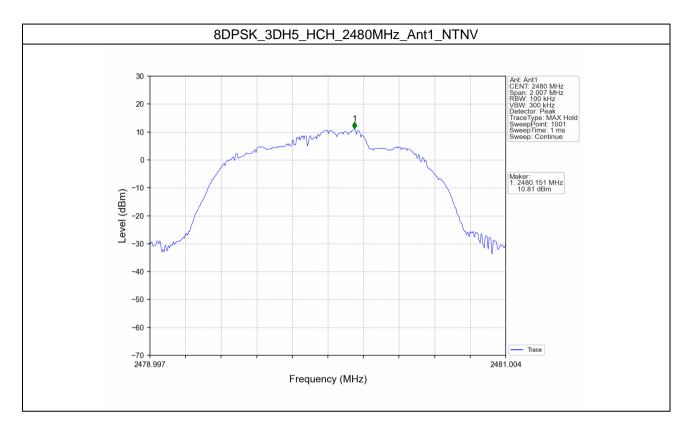
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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict	
		2402	DH5	1	10.80	-9.20	Pass	
		2441	DH5	1	10.80	-9.20	Pass	
GFSK	SISO	2480	DH5	1	10.80	-9.20	Pass	
		HOPP	DUE	4	10.80	-9.20	Pass	
		норр	DH5	1	10.80	-9.20	Pass	
	SISO	2402	2DH5	1	10.69	-9.31	Pass	
		2441	2DH5	1	10.69	-9.31	Pass	
Pi/4DQPSK		2480	2DH5	1	10.69	-9.31	Pass	
		HOPP	2DH5	1	10.69	-9.31	Pass	
					10.69	-9.31	Pass	
	SISO		2402	3DH5	1	10.81	-9.19	Pass
		2441	3DH5	1	10.81	-9.19	Pass	
8DPSK		2480	3DH5	1	10.81	-9.19	Pass	
		HOPP 3E	ODLIE.		10.81	-9.19	Pass	
			3DH5	1	10.81	-9.19	Pass	



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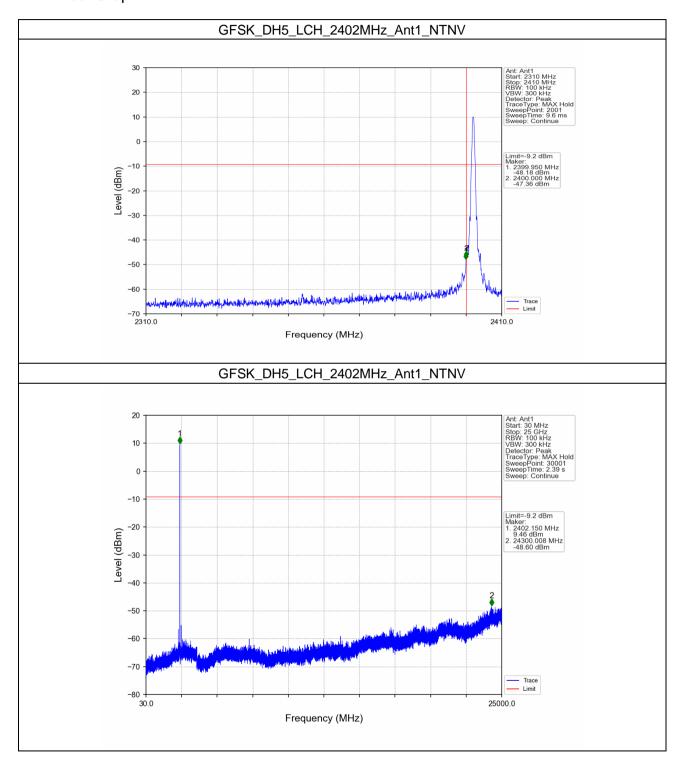
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7.2.2 Test Graph





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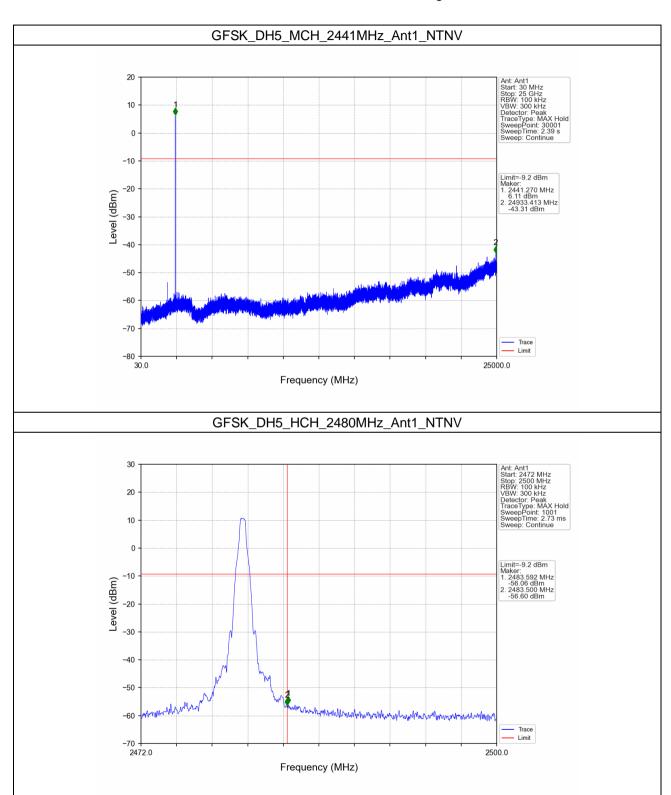
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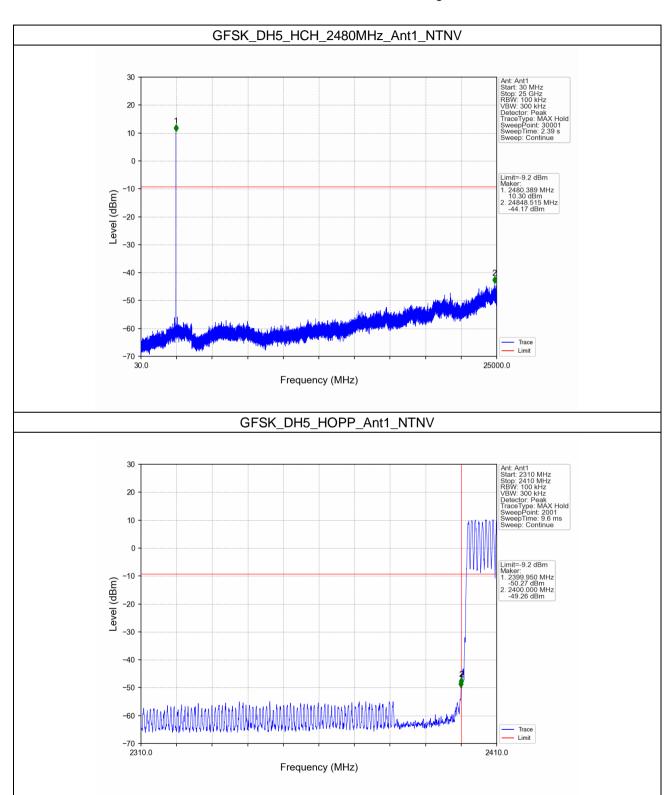
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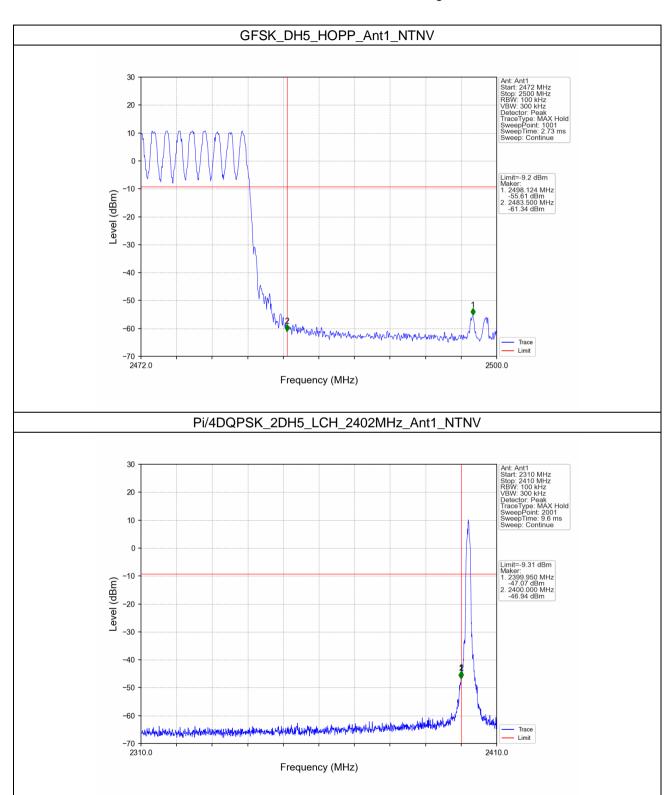
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